# WEST Search History

DATE: Tuesday, December 03, 2002

| Set Name side by side | Query | Hit Count | Set Name result set |
|---|---|---|---|
| *DB=USPT,PGPB; PLUR=YES; OP=ADJ* | | | |
| L5 | L4 and (mel7 or mel 7 or cantaloupe) | 12 | L5 |
| L4 | L3 and (fruit specific or fruit associated or fruit preferred) | 95 | L4 |
| L3 | melon and promoter and fruit | 430 | L3 |
| L2 | mel7 or mel 7 | 10 | L2 |
| *DB=USPT; PLUR=YES; OP=ADJ* | | | |
| L1 | mel7 or mel 7 | 7 | L1 |

END OF SEARCH HISTORY

Connecting via Winsock to STN

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TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

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 NEWS  1          Web Page URLs for STN Seminar Schedule - N. America
 NEWS  2  Apr 08  "Ask CAS" for self-help around the clock
 NEWS  3  Apr 09  BEILSTEIN: Reload and Implementation of a New Subject Area
 NEWS  4  Apr 09  ZDB will be removed from STN
 NEWS  5  Apr 19  US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
 NEWS  6  Apr 22  Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
 NEWS  7  Apr 22  BIOSIS Gene Names now available in TOXCENTER
 NEWS  8  Apr 22  Federal Research in Progress (FEDRIP) now available
 NEWS  9  Jun 03  New e-mail delivery for search results now available
 NEWS 10  Jun 10  MEDLINE Reload
 NEWS 11  Jun 10  PCTFULL has been reloaded
 NEWS 12  Jul 02  FOREGE no longer contains STANDARDS file segment
 NEWS 13  Jul 22  USAN to be reloaded July 28, 2002;
                  saved answer sets no longer valid
 NEWS 14  Jul 29  Enhanced polymer searching in REGISTRY
 NEWS 15  Jul 30  NETFIRST to be removed from STN
 NEWS 16  Aug 08  CANCERLIT reload
 NEWS 17  Aug 08  PHARMAMarketLetter(PHARMAML) - new on STN
 NEWS 18  Aug 08  NTIS has been reloaded and enhanced
 NEWS 19  Aug 19  Aquatic Toxicity Information Retrieval (AQUIRE)
                  now available on STN
 NEWS 20  Aug 19  IFIPAT, IFICDB, and IFIUDB have been reloaded
 NEWS 21  Aug 19  The MEDLINE file segment of TOXCENTER has been reloaded
 NEWS 22  Aug 26  Sequence searching in REGISTRY enhanced
 NEWS 23  Sep 03  JAPIO has been reloaded and enhanced
 NEWS 24  Sep 16  Experimental properties added to the REGISTRY file
 NEWS 25  Sep 16  Indexing added to some pre-1967 records in CA/CAPLUS
 NEWS 26  Sep 16  CA Section Thesaurus available in CAPLUS and CA
 NEWS 27  Oct 01  CASREACT Enriched with Reactions from 1907 to 1985
 NEWS 28  Oct 21  EVENTLINE has been reloaded
 NEWS 29  Oct 24  BEILSTEIN adds new search fields
 NEWS 30  Oct 24  Nutraceuticals International (NUTRACEUT) now available on STN
 NEWS 31  Oct 25  MEDLINE SDI run of October 8, 2002
 NEWS 32  Nov 18  DKILIT has been renamed APOLLIT
 NEWS 33  Nov 25  More calculated properties added to REGISTRY
 NEWS 34  Dec 02  TIBKAT will be removed from STN

 NEWS EXPRESS  October 14 CURRENT WINDOWS VERSION IS V6.01,
               CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP),
               AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002
 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
 NEWS INTER    General Internet Information
 NEWS LOGIN    Welcome Banner and News Items
 NEWS PHONE    Direct Dial and Telecommunication Network Access to STN
 NEWS WWW      CAS World Wide Web Site (general information)
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Enter NEWS followed by the item number or name to see news on that
specific topic.

* * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 15:10:28 ON 03 DEC 2002

=> file agricola caplus biosis

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 0.21 | 0.21 |

FILE 'AGRICOLA' ENTERED AT 15:10:37 ON 03 DEC 2002

FILE 'CAPLUS' ENTERED AT 15:10:37 ON 03 DEC 2002
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.


FILE 'BIOSIS' ENTERED AT 15:10:37 ON 03 DEC 2002


=> s mel7 or mel 7
L1 36 MEL7 OR MEL 7

=> s l1 and (cdna or gene or promoter)
L2 21 L1 AND (CDNA OR GENE OR PROMOTER)

=> d l1 ti

L1 ANSWER 1 OF 36 AGRICOLA
TI Analysis of physiological and molecular changes in melon (Cucumis melo L.) varieties with different rates of ripening.

=> d l1 ab

L1 ANSWER 1 OF 36 AGRICOLA
AB Seven melon varieties (Alpha, Delada, Marygold, Sirio, Topper, Tornado, and Viva) known to exhibit differences in their ripening behaviour were used in this study. The expression of mRNAs for ACC oxidase (MEL1) and phytoene synthase (MEL5), required for synthesis of ethylene and carotenoids, respectively, and two ripening-related cDNAs (MEL2 and **MEL7**), of unknown function, was examined and correlated with the development of colour and softening of fruits. The MEL2 and **MEL7** mRNAs were present and accumulated in all varieties, indicating their importance in melon fruit ripening. The fruits of Delada and Marygold did not show any change in the colour of the flesh even at 50 daa (days after anthesis). All other varieties changed colour from green to orange between 25-30 daa. The phytoene synthase mRNA levels in most varieties seemed to be unrelated to change in fruit flesh colour. The firmness of all the fruits was reduced significantly between 25 and 40 daa. The expression of ACC oxidase mRNA showed the most variation among the different varieties and was delayed in Sirio and undetectable in Marygold fruits even at 40 daa. Varieties with delayed expression of ACC oxidase mRNAs after anthesis also showed delayed softening during ripening. The prospects of genetic engineering and breeding for melon fruits with improved quality characteristics and extended storage life are discussed.

=> d 1-11 ti

L2 ANSWER 1 OF 21 AGRICOLA
TI Analysis of physiological and molecular changes in melon (Cucumis melo L.) varieties with different rates of ripening.

L2 ANSWER 2 OF 21 AGRICOLA
TI Characterization of two **cDNA** clones for mRNAs expressed during ripening of melon (Cucumis melo L.) fruits.

L2 ANSWER 3 OF 21 AGRICOLA
TI Identification of the alpha-galactosidase MEL genes in some populations of Saccharomyces cerevisiae: a new **gene** MEL11.

L2 ANSWER 4 OF 21 AGRICOLA
TI Polymeric genes MEL8, MEL9 and MEL10--new members of alpha-galactosidase **gene** family in Saccharomyces cerevisiae.

L2 ANSWER 5 OF 21 AGRICOLA
TI A new family of polymorphic genes in Saccharomyces cerevisiae: alpha-galactosidase genes MEL1-**MEL7**.

L2 ANSWER 6 OF 21 CAPLUS COPYRIGHT 2002 ACS
TI Melon promoters for expression of transgene in plants in a fruit-specific and ripening-associated manner

L2 ANSWER 7 OF 21 CAPLUS COPYRIGHT 2002 ACS
TI Characterization of two **cDNA** clones for mRNAs expressed during ripening of melon fruits and their use for plant breeding

L2 ANSWER 8 OF 21 CAPLUS COPYRIGHT 2002 ACS
TI Analysis of physiological and molecular changes in melon (Cucumis melo L.) varieties with different rates of ripening

L2 ANSWER 9 OF 21 CAPLUS COPYRIGHT 2002 ACS
TI Characterization of two **cDNA** clones for mRNAs expressed during ripening of melon (Cucumis melo L.) fruits

L2 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2002 ACS
TI Identification of the .alpha.-galactosidase MEL genes in some populations of Saccharomyces cerevisiae: a new **gene** MEL11

L2 ANSWER 11 OF 21 CAPLUS COPYRIGHT 2002 ACS
TI Genetic mapping of the .alpha.-galactosidase MEL **gene** family on right and left telomeres of Saccharomyces cerevisiae

=> dup rem l2
PROCESSING COMPLETED FOR L2
L3 11 DUP REM L2 (10 DUPLICATES REMOVED)

=> d 1-11 ti

L3 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2002 ACS
TI Melon promoters for expression of transgene in plants in a fruit-specific and ripening-associated manner

L3 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2002 ACS
TI Characterization of two **cDNA** clones for mRNAs expressed during ripening of melon fruits and their use for plant breeding

L3 ANSWER 3 OF 11 AGRICOLA DUPLICATE 1

TI Analysis of physiological and molecular changes in melon (Cucumis melo L.) varieties with different rates of ripening.

L3 ANSWER 4 OF 11 AGRICOLA DUPLICATE 2
TI Characterization of two **cDNA** clones for mRNAs expressed during ripening of melon (Cucumis melo L.) fruits.

L3 ANSWER 5 OF 11 AGRICOLA DUPLICATE 3
TI Identification of the alpha-galactosidase MEL genes in some populations of Saccharomyces cerevisiae: a new **gene** MEL11.

L3 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 4
TI Genetic mapping of the .alpha.-galactosidase MEL **gene** family on right and left telomeres of Saccharomyces cerevisiae

L3 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2002 ACS
TI MEL **gene** polymorphism in the genus Saccharomyces

L3 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2002 ACS
TI Physical mapping of the MEL **gene** family in Saccharomyces cerevisiae

L3 ANSWER 9 OF 11 AGRICOLA DUPLICATE 5
TI Polymeric genes MEL8, MEL9 and MEL10--new members of alpha-galactosidase **gene** family in Saccharomyces cerevisiae.

L3 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2002 ACS
TI Recombinant Rhizobium meliloti with improved nitrogen fixation capability

L3 ANSWER 11 OF 11 AGRICOLA DUPLICATE 6
TI A new family of polymorphic genes in Saccharomyces cerevisiae: alpha-galactosidase genes MEL1-**MEL7**.

=> d l1 1-5 ti

L1 ANSWER 1 OF 36 AGRICOLA
TI Analysis of physiological and molecular changes in melon (Cucumis melo L.) varieties with different rates of ripening.

L1 ANSWER 2 OF 36 AGRICOLA
TI Characterization of two cDNA clones for mRNAs expressed during ripening of melon (Cucumis melo L.) fruits.

L1 ANSWER 3 OF 36 AGRICOLA
TI Identification of the alpha-galactosidase MEL genes in some populations of Saccharomyces cerevisiae: a new gene MEL11.

L1 ANSWER 4 OF 36 AGRICOLA
TI Polymeric genes MEL8, MEL9 and MEL10--new members of alpha-galactosidase gene family in Saccharomyces cerevisiae.

L1 ANSWER 5 OF 36 AGRICOLA
TI A new family of polymorphic genes in Saccharomyces cerevisiae: alpha-galactosidase genes MEL1-**MEL7**.

=> s l1 and (melon or cantaloupe)
L4 8 L1 AND (MELON OR CANTALOUPE)

=> dup rem l4
PROCESSING COMPLETED FOR L4
L5 4 DUP REM L4 (4 DUPLICATES REMOVED)

=> d 1-4 ti

L5 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2002 ACS
TI **Melon** promoters for expression of transgene in plants in a fruit-specific and ripening-associated manner

L5 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2002 ACS
TI Characterization of two cDNA clones for mRNAs expressed during ripening of **melon** fruits and their use for plant breeding

L5 ANSWER 3 OF 4 AGRICOLA DUPLICATE 1
TI Analysis of physiological and molecular changes in **melon** (Cucumis melo L.) varieties with different rates of ripening.

L5 ANSWER 4 OF 4 AGRICOLA DUPLICATE 2
TI Characterization of two cDNA clones for mRNAs expressed during ripening of **melon** (Cucumis melo L.) fruits.

=> s s-adenosylmethionine hydrolase or samase or sam-k
L6 75 S-ADENOSYLMETHIONINE HYDROLASE OR SAMASE OR SAM-K

=> s l6 and plant?
L7 35 L6 AND PLANT?

=> dup rem l7
PROCESSING COMPLETED FOR L7
L8 29 DUP REM L7 (6 DUPLICATES REMOVED)

=> d 1-10 ti

L8 ANSWER 1 OF 29 CAPLUS COPYRIGHT 2002 ACS
TI Expression of a hypersensitive response elicitor gene in combination with other transgenes in **plants** to improve growth, stress tolerance, disease or insect resistance

L8 ANSWER 2 OF 29 CAPLUS COPYRIGHT 2002 ACS
TI Melon promoters for expression of transgene in **plants** in a fruit-specific and ripening-associated manner

L8 ANSWER 3 OF 29 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI Reduced ethylene concentration and postharvest quality of transgenic netted melon (Cucumis melo L.) expressing **S-adenosylmethionine hydrolase**.

L8 ANSWER 4 OF 29 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI Synthetic hybrid tomato E4/E8 **plant** promoter.

L8 ANSWER 5 OF 29 CAPLUS COPYRIGHT 2002 ACS
TI Genetic engineering of fruits and vegetables with the ethylene control gene encoding **S-adenosylmethionine hydrolase** (**SAMase**)

L8 ANSWER 6 OF 29 CAPLUS COPYRIGHT 2002 ACS
TI A hybrid **plant** promoter derived from the E4 and E8 fruit-specific promoters of tomato

L8 ANSWER 7 OF 29 CAPLUS COPYRIGHT 2002 ACS
TI Transgenic fruit **plants** with a modified fruiting phenotype arising altered ethylene biosynthesis and responsiveness

L8 ANSWER 8 OF 29 CAPLUS COPYRIGHT 2002 ACS
TI Genetic engineering of cantaloupe to reduce ethylene biosynthesis and control ripening

L8 ANSWER 9 OF 29 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI Use of **S-adenosylmethionine hydrolase** to
down regulate ethylene production in ripening fruit.

L8 ANSWER 10 OF 29 CAPLUS COPYRIGHT 2002 ACS
TI Transformation methods for reduced ethylene formation in transgenic
strawberry and raspberry **plants**

=> s l8 and l1
L9 1 L8 AND L1

=> d ti

L9 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS
TI Melon promoters for expression of transgene in **plants** in a
fruit-specific and ripening-associated manner

=> d pi

L9 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|---|
| PI | WO 2001071013 | A2 | 20010927 | WO 2001-US8430 | 20010316 |
| | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| | RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| | US 2002133850 | A1 | 20020919 | US 2001-811093 | 20010316 |

=> s mel7 and ethylene
L10 8 MEL7 AND ETHYLENE

=> dup rem l10\
ENTER L# LIST OR (END):dup rem l10
DUP IS NOT VALID HERE
The L-number entered has not been defined in this session, or it
has been deleted. To see the L-numbers currently defined in this
session, enter DISPLAY HISTORY at an arrow prompt (=>).

=> dup rem l10
PROCESSING COMPLETED FOR L10
L11 4 DUP REM L10 (4 DUPLICATES REMOVED)

=> d 1-4 ti

L11 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2002 ACS
TI Melon promoters for expression of transgene in plants in a fruit-specific
and ripening-associated manner

L11 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2002 ACS
TI Characterization of two cDNA clones for mRNAs expressed during ripening of
melon fruits and their use for plant breeding

L11 ANSWER 3 OF 4 AGRICOLA DUPLICATE 1
TI Analysis of physiological and molecular changes in melon (Cucumis melo L.)

varieties with different rates of ripening.

L11 ANSWER 4 OF 4 AGRICOLA DUPLICATE 2
TI Characterization of two cDNA clones for mRNAs expressed during ripening of melon (Cucumis melo L.) fruits.